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(54) Title: CAMEL, AN ALTERNATIVE TRANSLATION PRODUCT OF THE TUMOUR ANTIGEN LAGE-1

CAMEL LAGE-1 ^s	A WAS COMPANY OF COMPA	40
LAGE-1	ATCCTCGTGGGCCCTGACCTTCTCTGAGAGCCGGGCAGAGGCTCCG	48
	GCATCCTCGTGGGCCCTGACCTTCTCTCTGAGAGCCGGGCAGAGGCTCCG	50
NY-ESO-1	ATCCTCGTGGGCCCTGACCTTCTCTCTGAGAGCCGGGCAGAGGCTCCG	48
CAMEL	CGACGGCCG ATG CT	14
LAGE-1 ^s	GAGCCATGCAGGCCGAAGGCCAGGGCACAGGGGGTTCGACGGGCGATGCT	98
LAGE-1 ^L	GAGCCATGCAGGCCGAAGGCCAGGGCACAGGGGGTTCGACGGGCGATGCT	100
NY-ESO-1	GAGCCATGCAGGCCGAAGGCCGGGGCACAGGGGGTTCGACGGGCGATGCT	98

CAMEL LAGE-1 ^S	GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGGCAATGCTGG GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGGCAATGCTGG	64 148
LAGE-1 ^L	GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGGCAATGCTGG	150
NY-ESO-1	GATGGCCCAGGAGGCCCTGGCATTCCTGATGGCCCAGGGGGCAATGCTGG *********************************	148
CAMEL LAGE-1 ^s LAGE-1 ^L LAGE-1 ^L	CGGCCCAGGAGAGGCGGGTGCCACGGGCGGCAGAGGTCCCCGGGGCGCAG CGGCCCAGGAGAGGCGGGTGCCACGGGCGGCAGAGGTCCCCGGGGCGCAG CGGCCCAGGAGAGGCGGGTGCCACGGGCGGAGGTCCCCGGGGCGCAG CGGCCCAGGAGAGGCGGGTGCCACGGGCGGAGAGGTCCCCGGGGCGCAG	114 198 200 198

(57) Abstract

The tumor-associated antigen CAMEL and DNA encoding it. The tumor-associated antigen is encoded by an open reading frame of the LAGE-1 gene. The tumor-associated antigen, immunogenic (poly)peptides derived therefrom and DNAs encoding them, are useful for cancer immunotherapy.